

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 02285804
PUBLICATION DATE : 26-11-90

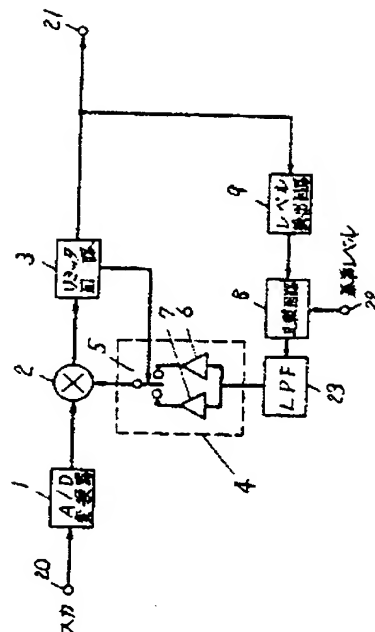
APPLICATION DATE : 27-04-89
APPLICATION NUMBER : 01108828

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : MATSUMOTO TOKIKAZU;

INT.CL. : H03G 3/30 H03G 3/20

TITLE : DIGITAL AUTOMATIC GAIN
CONTROLLER



ABSTRACT : PURPOSE: To reduce the circuit scale and to improve the response speed by limiting an amplitude through the use of a limiter circuit and reducing the dynamic range of signal processing without deteriorating the transient response.

CONSTITUTION: A signal inputted from an input terminal 20 is converted into a digital signal by an A/D converter 1 and the amplitude is controlled by a multiplier 2. The output of the multiplier 2 is given to a limiter circuit 3, the amplitude of the input is limited and outputted to an output terminal 21. The limiter circuit 3 limits the amplitude when the input level reaches a prescribed value or over and switches a coefficient of a variable coefficient circuit 4. On the other hand, the output level of the limiter circuit 3 is detected by a level detection circuit 9 and compared with a reference level inputted from an input terminal 22 at a comparator circuit 8, and the result is fed to the variable coefficient circuit 4. The output of the variable coefficient circuit 4 is fed back to the multiplier 2. As a result, the level at the output terminal 21 is the same as the reference level.

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